

LISTING OF CLAIMS

5 This listing of claims will replace all prior versions and listings of claims in the application:

1. - 18. (canceled)

10 19. (currently amended) A dispensing apparatus capable of delivering quantities of a liquid product, comprising:

[a drive mechanism;

at least one feed screw having a helical thread;]

15 a housing having a main body releasably attached to [and] a front body, [where the main body is attached to the front body] wherein the main body and the front body [when attached] form an internal cavity having a main cavity, a drive cavity, an output cavity and two input cavities;

20 a disposable insert having a chamber, a first portion, a second portion, and [two]a first and a second input channel [channels where] wherein the disposable insert conformally fits within the internal cavity of the housing, [such that] wherein a first component liquid is delivered through [a] the first input channel [of the at least two input channels] to the chamber, and a second component liquid is delivered through [a] the second input channel to the chamber, [of the at least two input channels, where] the first and second input channels [channel and the second input channel are] disposed to hinder
25 interaction [so that interaction is hindered] between the first component liquid and the second component liquid in either input channel; and

30 at least one feed screw having a helical thread [and] disposed in the chamber, [where] wherein rotation of the at least one feed screw[, rotated by the drive mechanism] mixes the first and second component liquids to form a liquid product and discharges a precise amount of the liquid product from the chamber.

20. (currently amended) The dispensing apparatus of claim 19, wherein the disposable insert is removable from the housing]when the main body and the front body are detached, and wherein a new disposable insert substantially
5 mates with the internal cavity of the housing]..

21. (original) The dispensing apparatus of claim 19, wherein the housing further comprises a locking mechanism and a hinge mechanism coupling the main body to the front body.

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22. (currently amended) The dispensing apparatus of claim 19, further comprising a disposable dispenser tip in liquid communication with the chamber [output channel for dispensing a controlled amount of product].

15 23. (currently amended) The dispensing apparatus of claim 19, wherein the [two] first and second input channels extend radially from the chamber where one input channel is closer to the first portion than the second input channel and the first and second input channels are separated by a least a distance sufficient to preclude interaction, in either input channel, of the first and second
20 component liquids [in either input channel].

24. (original) The dispensing apparatus of claim 19, wherein one input channel descends to the chamber and the second input channel ascends to the chamber, wherein the two input channels are attached to the chamber at a
25 common location and the angle formed by the two input channels is acute.

25. (currently amended) The dispensing apparatus of claim 19, wherein the [two] first and second input channels further comprise an inlet end attached to the chamber and a storage end, wherein a storage reservoir is mounted to the
30 storage end of each input channel.

26. (currently amended) The dispensing apparatus of claim 19, wherein the chamber further comprises a third portion having smoothly varying tapered internal walls [that are tapered], wherein the third portion has a [starting] first diameter near the first portion and a second diameter near [that smoothly varies becoming smaller as the walls approach] the second portion wherein the first diameter is greater than the second diameter; and wherein the helical threads of the at least one feed screw are in sliding contact with the internal walls of the third portion of the chamber.

27. (original) The dispensing apparatus of claim 26, wherein the at least one feed screw further comprises helical threads having a linear pitch.

28. (currently amended) The dispensing apparatus of claim 19, wherein the at least one feed screw further comprises two feed screws having helical threads [where the drive mechanism drives the two feed screws].

29. (original) The dispensing apparatus of claim 28, wherein the chamber further comprises a third portion having a barrel body having two partly overlapping cylindrical bores and the two feed screws are rotatably supported in the two partly overlapping cylindrical bores of the barrel body.

30. (original) The dispensing apparatus of claim 29, wherein the two partly overlapping cylindrical bores have a region of overlap and the two partly overlapping cylindrical bores having internal walls that are substantially parallel, wherein the helical threads of the two feed screws are in sliding contact with the internal walls of the third portion of the chamber and where the helical threads of the two feed screws are intermeshing in the region of overlap.

31. (original) The dispensing apparatus of claim 29, wherein the two feed screws further comprise helical threads having a variable pitch that decreases as the helical threads approach the second portion of the chamber.

32. (currently amended) The dispensing apparatus of claim 28, wherein the chamber further comprises a third portion having a barrel body having two non-overlapping cylindrical bores having internal walls that are substantially parallel and the two feed screws are rotatably supported in the two non-overlapping
5 cylindrical bores of the barrel body, wherein the helical threads of the two feed screws are in sliding contact with the internal walls of the third portion of the chamber and [where] wherein the helical threads of the two feed screws are non-intermeshing.

10 33. - 35 (canceled)